

The Commonwealth of Massachusetts
Executive Office of Health and Human Services
Department of Public Health
William A. Hinton State Laboratory Institute
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK
GOVERNOR

TIMOTHY P. MURRAY
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD
SECRETARY

JOHN AUERBACH
COMMISSIONER

11/29/2011

LaKeshia Parker-Small
Assistant District Attorney, Suffolk County

Dear ADA Parker-Small,

Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED]
Included are copies of the following:

1. Curriculum Vitae for Annie Dookhan and Kate Corbett.
2. Drug Analysis Laboratory Receipt.
3. Control Cards with analytical results for samples # [REDACTED]
4. Analysis sheets with custodial chemist's hand notations and test results.
5. GC/Mass Spectral analytical data for samples # [REDACTED]

Annie Dookhan was the custodial chemist and performed the preliminary testing and net weight for this sample. Kate Corbett analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

A handwritten signature in black ink, appearing to read "Annie Dookhan".
Annie Dookhan
Chemist
Drug Analysis Lab
Jamaica Plain, MA. 02130
(617) 983-6622

Curriculum Vitae

Annie Khan (Dookhan)

Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.
University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

Experience:

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.

*Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.

*Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.

*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.

*Maintenance and repairs of all analytical instruments.

*Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.

*Oversee the Quality Control/Quality Assurance program for the Drug Lab.

*Writing, revising and reviewing Standard Operating Procedures (SOPs) and Protocols.

*Notary Public.

*Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 – 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

*Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.

*Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.

*Writing, revising and reviewing Standard Operating Procedures (SOPs).

*Trained and supervised new chemists and interns for the department.

*Routine QC testing of products for the FDA.

*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.

*Calibration, preventive maintenance, QC and QA of analytical instrumentation.

*Complete testing of chemicals for Vendor Validation Project for the FDA.

*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

Additional Training:

Dept. of Justice – Forensics Professionals. (numerous trainings)

GLP/GMP training with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS trainings with Agilent Technologies and Restek.

HPLC and LC/MS/MS trainings with Waters Cooperation.

FTIR training with Spectros.

TOC training with MBL and Sievers.

Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

Curriculum Vitae

Kate A. Corbett

Education

Bachelor of Science Degree, CHEMISTRY May 2003

MERRIMACK COLLEGE

Coursework included: Organic Chemistry, Inorganic Chemistry, Quantitative Analysis, Instrumental Analysis, Physical Chemistry, Physics, Calculus

Employment

Chemist II State Laboratory Institute (March 2008-Present)

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance and trafficking substances to determine violation of the Massachusetts drug laws
- Responsible for the identification of pharmaceuticals to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation, microscopes and balances for forensic drug analysis

Chemist I State Laboratory Institute (2005-March 2008)

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation for the purpose of performing forensic drug analysis
- Successfully completed an eight week training course in the analysis of drugs conducted by senior staff of the Department of Public Health, Drug Analysis Laboratory
- Appointed an assistant analyst for the Department of Public Health, Drug Analysis Laboratory in 2005.

Research Associate (September 2003 – August 2005)

SENSOR TECHNOLOGIES, INC - Shrewsbury, MA

- Prepared chemistries used in making sensor beads
- Generated and examined sensors employing fluorescence spectroscopy
- Performed protein, dye and sugar assays using UV/VIS spectrophotometry
- Carried out titrations on ricin using fluorescence correlation spectroscopy
- Statistical analysis of experimental data

Intern (March 2003 – August 2003)

MASSACHUSETTS STATE POLICE CRIME LABORATORY - Sudbury, MA

- Assisted in the gathering of case files to fulfill the National Institute of Justice's No Suspect Backlog Reduction Grant
- Observed in the Evidence, Criminalistics, DNA, Drug, Trace, Toxicology, and Bomb/Arson Units



DRUG RECEIPT

CC #

BOOK # 151

PAGE # 20

DESTRUCTION # _____

District/Unit B2 - DCU

Name & Rank of Arresting Officer MURPHY ET AL ID# 8689

DEFENDANT'S NAME	ADDRESS	CITY	STATE
		Rox	MA
		Rox	MS
		Rox	MA

DESCRIPTION OF ITEMS SUBMITTED	GROSS QUANTITY	GROSS WEIGHT	LAB USE ONLY ANALYSIS NUMBER
Crack Cocaine	20 g/s	7.39g	
Crack COCAINE	1 p/s	5.22g	

To be completed by ECU personnel only

Name and Rank of Submitting Officer Sgt. Wink ID# 11064

Received by All Date 10-22-10

ECU Control #

No. [REDACTED]

Date Analyzed: 11/13/11

City: Boston D.C.U. Police Dept.

Officer: P.O. SYBIL WHITE

Def: [REDACTED]

Amount:

No. Cont: 20 Cont: pb

Subst: SUB

Date Rec'd: 10/21/2010

No. Analyzed: 2

Gross Wt.: 7.39

Net Weight: 2.17

Tests: 12 ASO

• 4 KAC

Prelim: Cocaine (C)

Findings: Cocaine

No. [REDACTED]

Date Analyzed: 11/13/11

City: Boston D.C.U. Police Dept.

Officer: P.O. SYBIL WHITE

Def: [REDACTED]

Amount:

Subst: SUB

No. Cont: 1 Cont: pb

Date Rec'd: 10/21/2010

No. Analyzed:

Gross Wt.: 5.22

Net Weight: 0.13

Tests: 6 ASO

• 2 KAC

Prelim: Cocaine (C)

Findings:

Cocaine

DRUG POWDER ANALYSIS FORM

SAMPLE # [REDACTED] AGENCY Boston ANALYST ASD

No. of samples tested: _____ Evidence Wt. _____

PHYSICAL DESCRIPTION: Gross Wt (26): 3.3697

Off white chunky substance Gross Wt (27): 0.3752

in 20 pbs

Pkg. Wt: _____

Net Wt: _____

PRELIMINARY TESTS

Spot Tests

Cobalt
Thiocyanate (—) +

Marquis —

Froehde's —

Mecke's —

Microcrystalline Tests

Gold
Chloride +

TLTA (—) +

OTHER TESTS

PRELIMINARY TEST RESULTS

RESULTS cocaine

DATE 01-10-16

GC/MS CONFIRMATORY TEST

RESULTS cocaine

MS
OPERATOR KAC

DATE 1-13-11

Sample #: [REDACTED]

samples tested: 2

#	Gross Weight	Packet Weight	Net Weight	#	Gross Weight	Packet Weight	Net Weight
1	0.2050	0.050		26			
2				27			
3	0.2166	0.1098	0.1068	28			
4	0.1593	0.0489	0.1104	29			
5				30			
6				31			
7				32			
8				33			
9				34			
10				35			
11				36			
12				37			
13				38			
14				39			
15				40			
16				41			
17				42			
18				43			
19				44			
20				45			
21				46			
22				47			
23				48			
24				49			
25				50			

Calculations:

$$\text{Est Net wt} = 0.2172 / 2 = 0.1086 \text{ (20)} \\ = 2.172^{\circ}$$

DRUG POWDER ANALYSIS FORM

SAMPLE # [REDACTED] AGENCY Boston ANALYST P-S7

No. of samples tested: _____ Evidence Wt: _____

PHYSICAL DESCRIPTION: Gross Wt (): 1.4404

off white crystalline substance
~1.4g

Gross Wt (): _____

Pkg. Wt: _____

Net Wt: 0.1372

PRELIMINARY TESTS

Spot Tests

Cobalt Thiocyanate (-) +

Marquis _____

Froehde's _____

Mecke's _____

Microcrystalline Tests

Gold Chloride +

TLTA (-) +

OTHER TESTS

PRELIMINARY TEST RESULTS

RESULTS cocaine

DATE 1-10-11

GC/MS CONFIRMATORY TEST

RESULTS cocaine

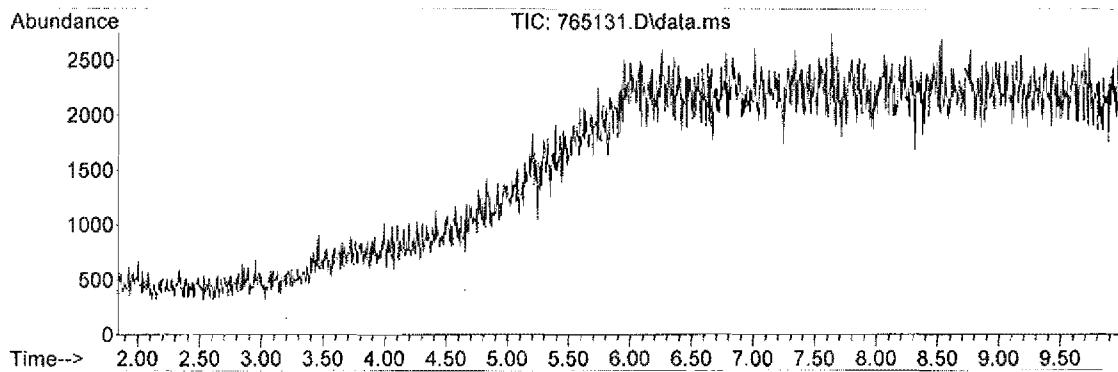
MS OPERATOR KAC

DATE 1-13-11

✓ KAC
11/29/11

Information from Data File:

File Name : J:\01_11_11\765131.D
Operator : KAC
Date Acquired : 11 Jan 2011 15:50
Sample Name : BLANK
Submitted by :
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE



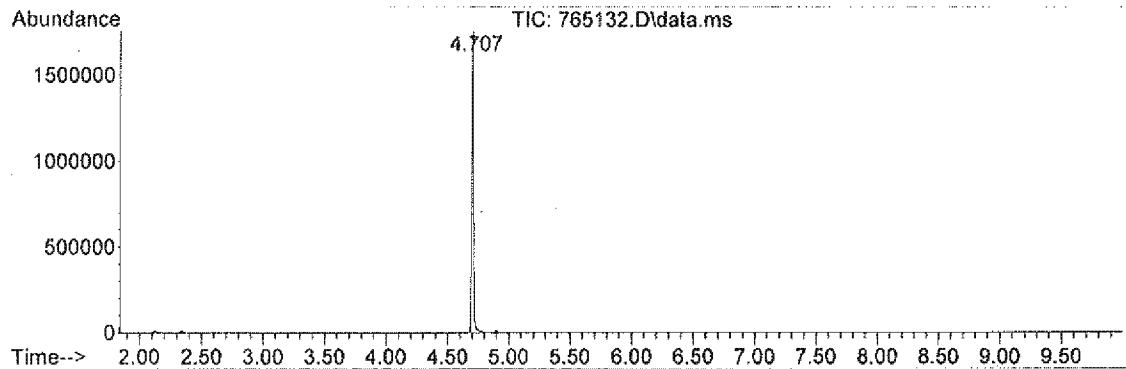
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : J:\01_11_11\765132.D
Operator : KAC
Date Acquired : 11 Jan 2011 16:03
Sample Name : COCAINE STD
Submitted by :
Vial Number : 32
AcquisitionMeth: DRUGS.M
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.707	1853946	100.00	100.00

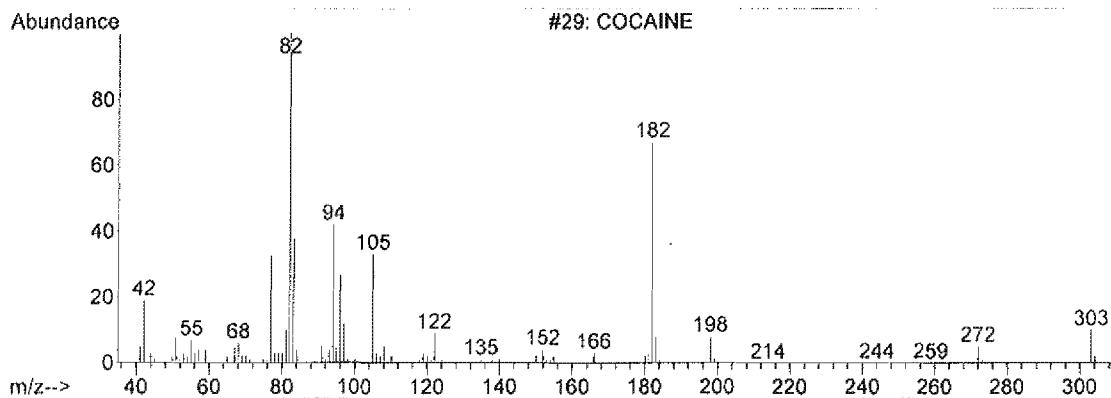
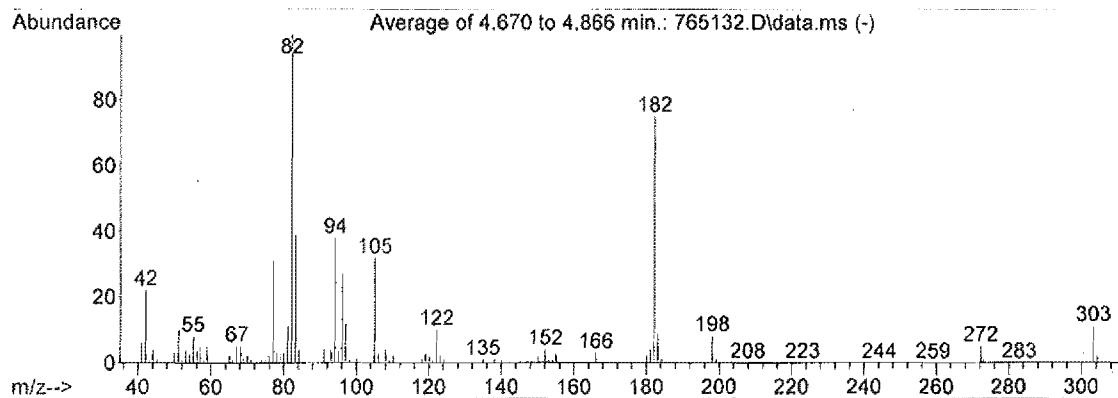
Area Percent / Library Search Report

Information from Data File:

File Name : J:\01_11_11\765132.D
Operator : KAC
Date Acquired : 11 Jan 2011 16:03
Sample Name : COCAINE STD
Submitted by :
Vial Number : 32
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

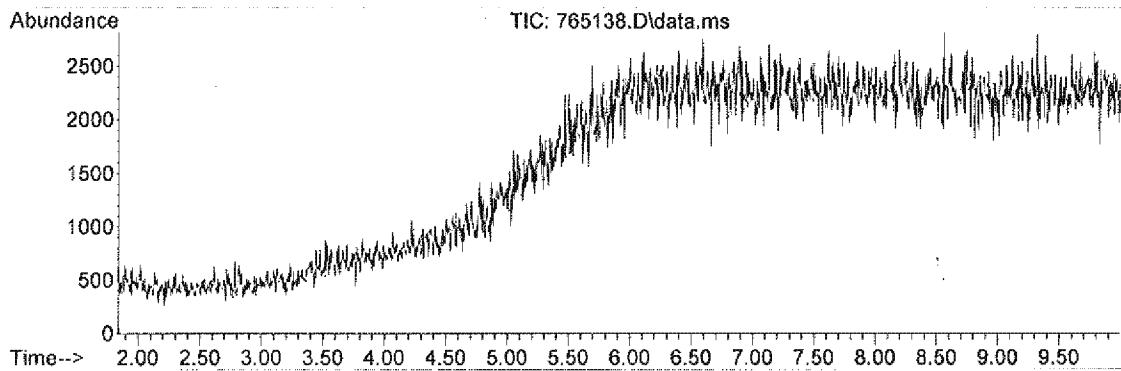
PK#	RT	Library/ID	CAS#	Qual
1	4.71	C:\Database\SLI.L COCAINE	000050-36-2	99



Area Percent / Library Search Report

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Operator : KAC
Date Acquired : 11 Jan 2011 17:18
Sample Name : BLANK
Submitted by : ASD
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE



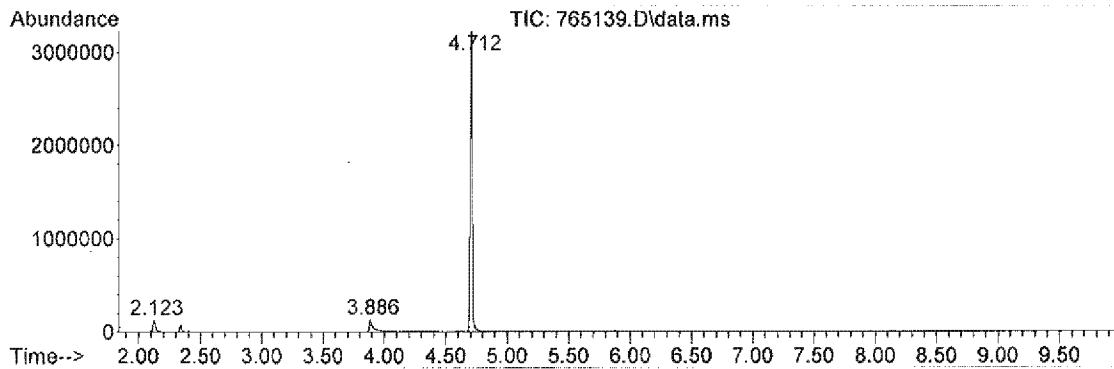
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : J:\01_11_11\765139.D
Operator : KAC
Date Acquired : 11 Jan 2011 17:31
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 39
AcquisitionMeth: DRUGS.M
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
2.123	191929	4.23	4.80
3.886	346068	7.64	8.66
4.712	3994418	88.13	100.00

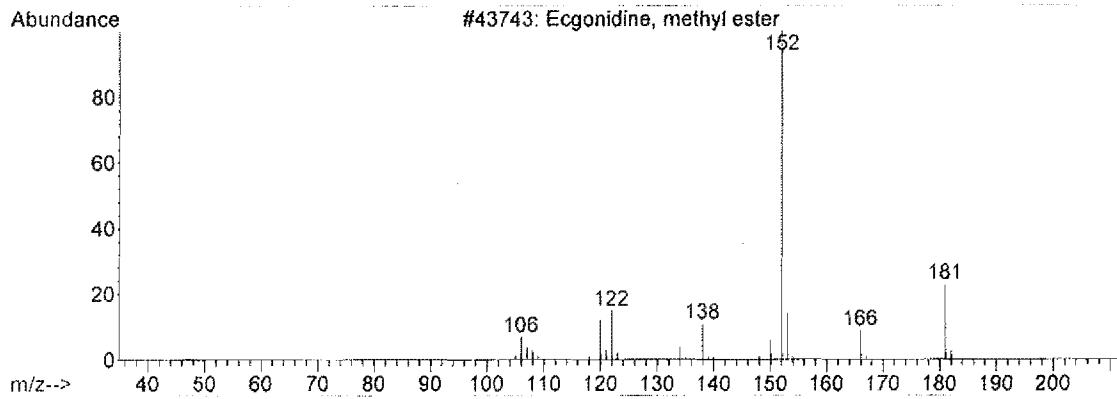
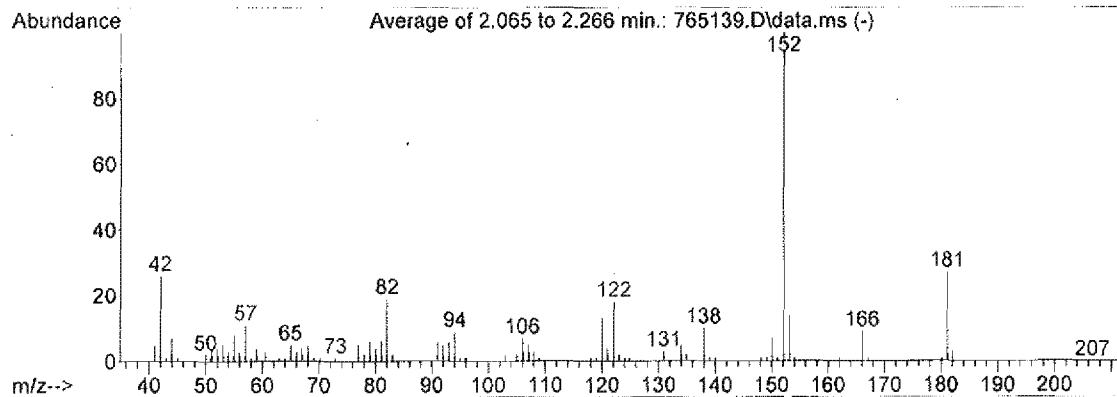
Area Percent / Library Search Report

Information from Data File:

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Operator : KAC
Date Acquired : 11 Jan 2011 17:31
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 39
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	2.12	C:\Database\NIST05a.L		
		Ecgonidine, methyl ester	127379-24-2	98
		2-Carbomethoxy-8-methyl-8-azabicycl	043021-26-7	96
		2(1H)-Pyridinone, 4-hydroxy-6-methy	007135-82-2	38



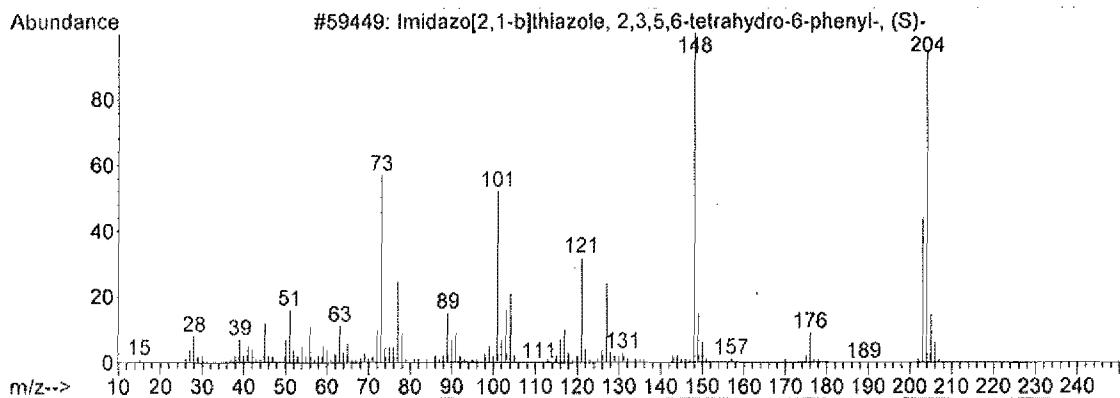
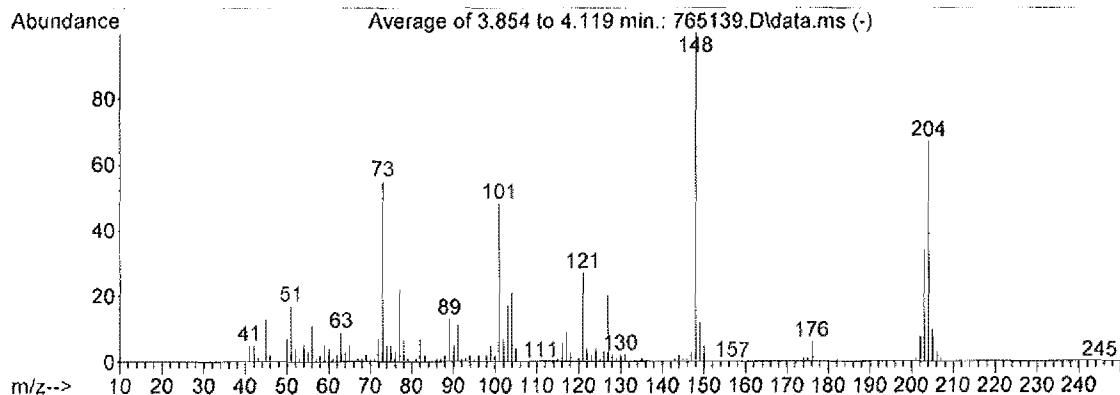
Area Percent / Library Search Report

Information from Data File:

File Name : J:\01_11_11\765139.D
 Operator : KAC
 Date Acquired : 11 Jan 2011 17:31
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 39
 AcquisitionMeth: DRUGS.M
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
 C:\Database\NIST05a.L Minimum Quality: 80
 C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	3.89	C:\Database\NIST05a.L		
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	014769-73-4	98
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	014769-73-4	98
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	98



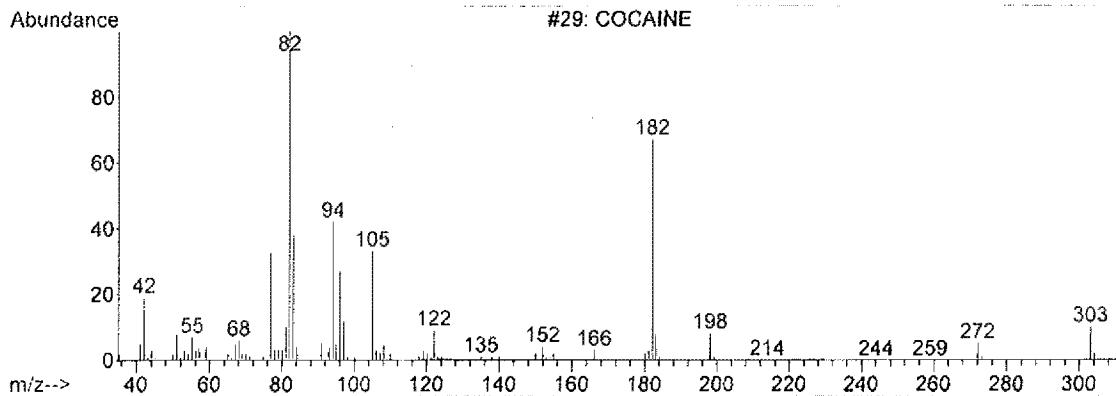
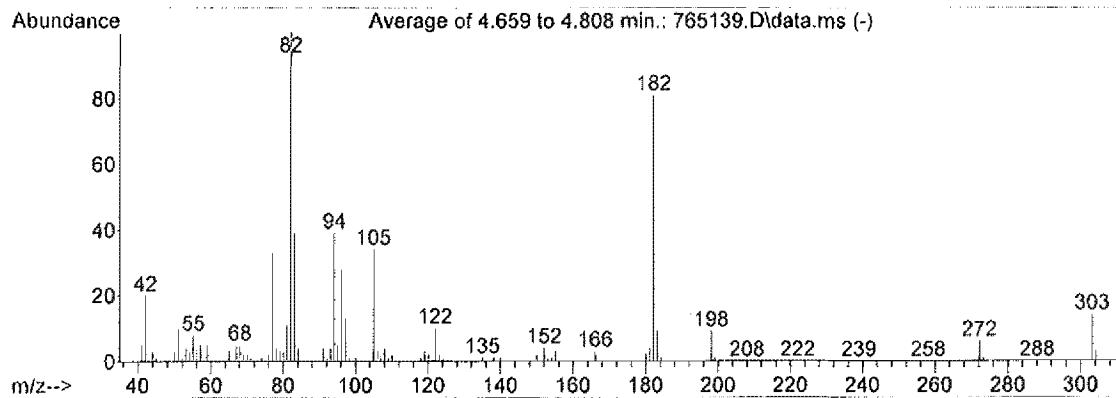
Area Percent / Library Search Report

Information from Data File:

File Name : J:\01_11_11\765139.D
Operator : KAC
Date Acquired : 11 Jan 2011 17:31
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 39
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

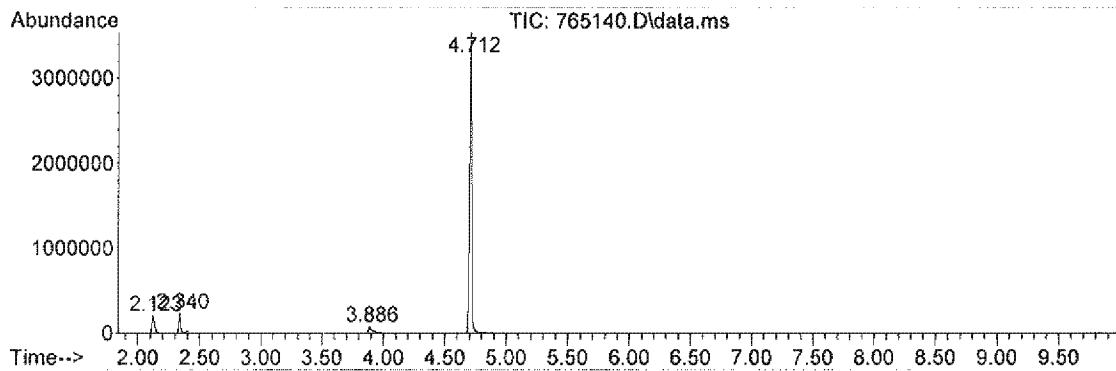
PK#	RT	Library/ID	CAS#	Qual
3	4.71	C:\Database\SLI.L COCAINE	000050-36-2	99



Area Percent / Library Search Report

Information from Data File:

File Name : J:\01_11_11\765140.D
Operator : KAC
Date Acquired : 11 Jan 2011 17:44
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 40
AcquisitionMeth: DRUGS.M
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
2.123	281327	5.54	6.48
2.340	225771	4.44	5.20
3.886	233942	4.61	5.39
4.712	4338945	85.41	100.00

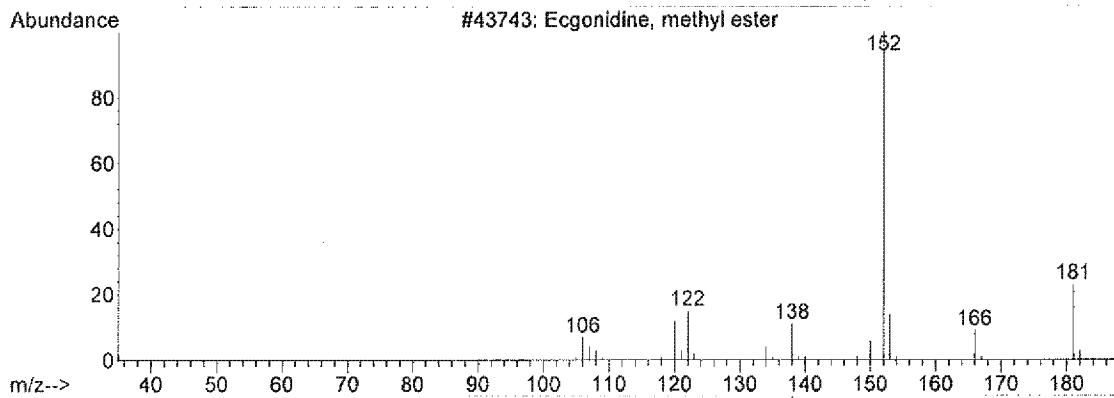
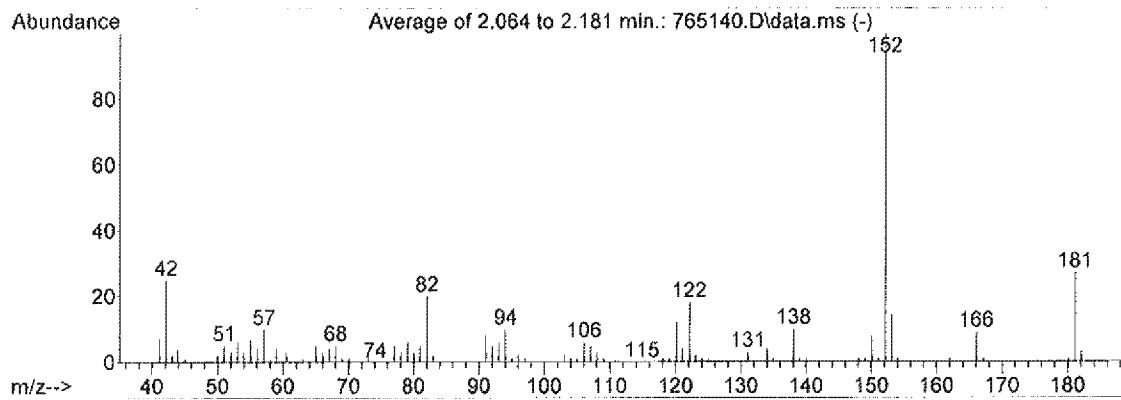
Area Percent / Library Search Report

Information from Data File:

File Name : J:\01_11_11\765140.D
Operator : KAC
Date Acquired : 11 Jan 2011 17:44
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 40
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	2.12	C:\Database\NIST05a.L		
		Egonidine, methyl ester	127379-24-2	98
		2-Carbomethoxy-8-methyl-8-azabicycl	043021-26-7	96
		1-Cyclohexyl-2-ethylpyrrolidine	051503-12-9	38



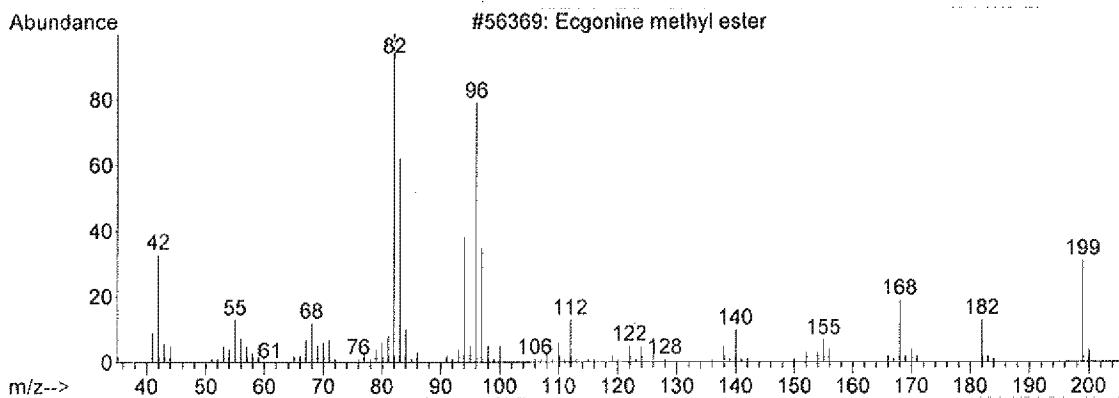
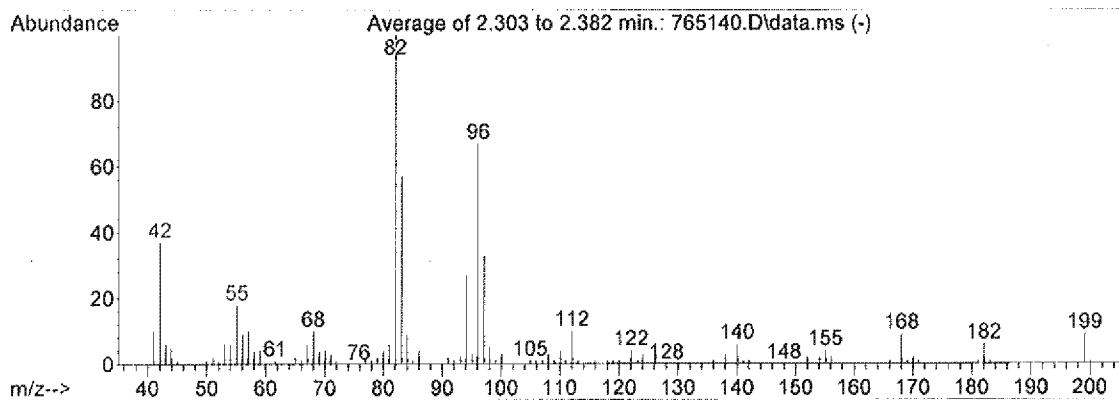
Area Percent / Library Search Report

Information from Data File:

File Name : J:\01_11_11\765140.D
Operator : KAC
Date Acquired : 11 Jan 2011 17:44
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 40
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	2.34	C:\Database\NIST05a.L		
		Ecgonine methyl ester	106293-60-1	98
		Ecgonine methyl ester	106293-60-1	97
		Pseudoecgonine methyl ester	099189-88-5	97



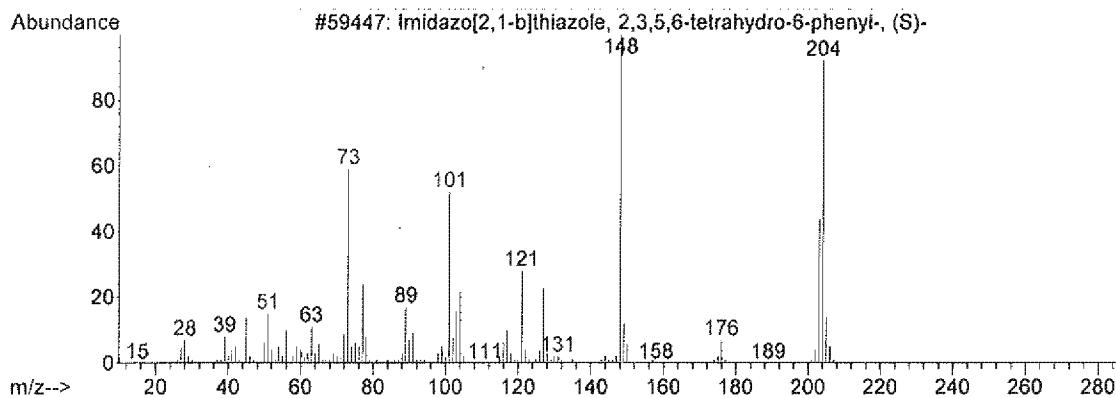
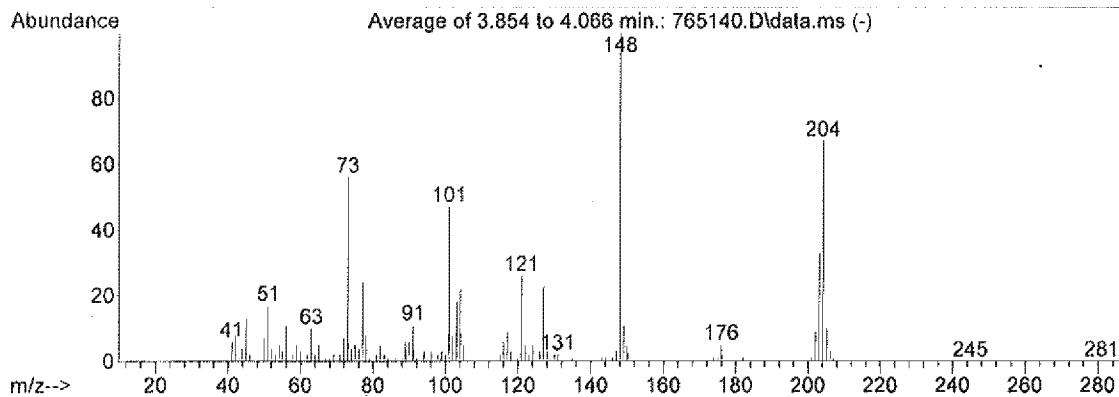
Area Percent / Library Search Report

Information from Data File:

File Name : J:\01_11_11\765140.D
Operator : KAC
Date Acquired : 11 Jan 2011 17:44
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 40
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
3	3.89	C:\Database\NIST05a.L		
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	014769-73-4	98
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	98
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	014769-73-4	98



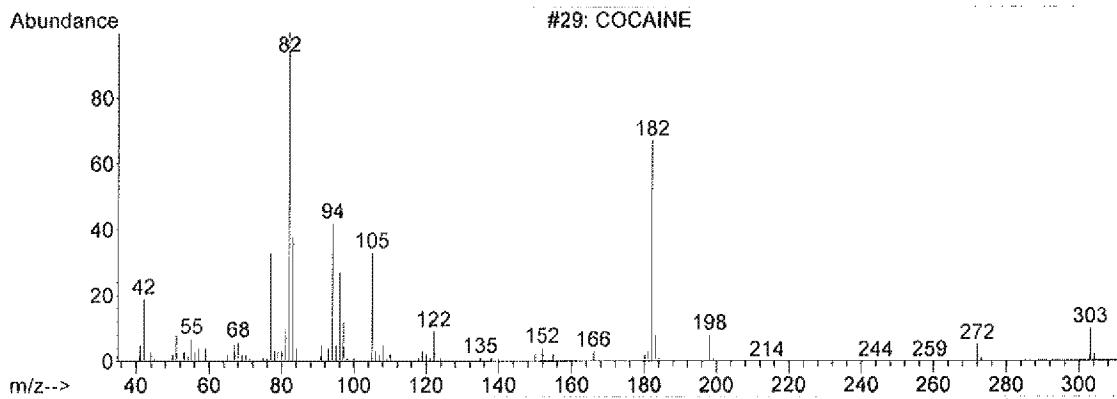
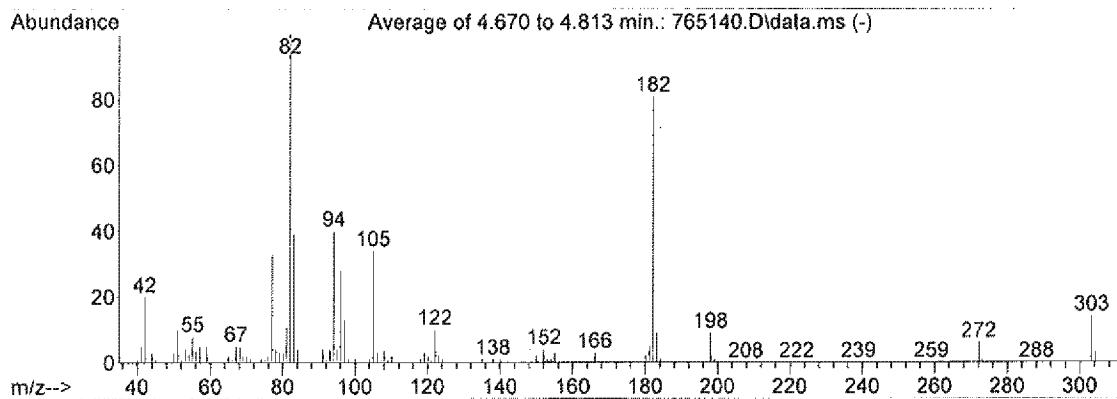
Area Percent / Library Search Report

Information from Data File:

File Name : J:\01_11_11\765140.D
Operator : KAC
Date Acquired : 11 Jan 2011 17:44
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 40
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

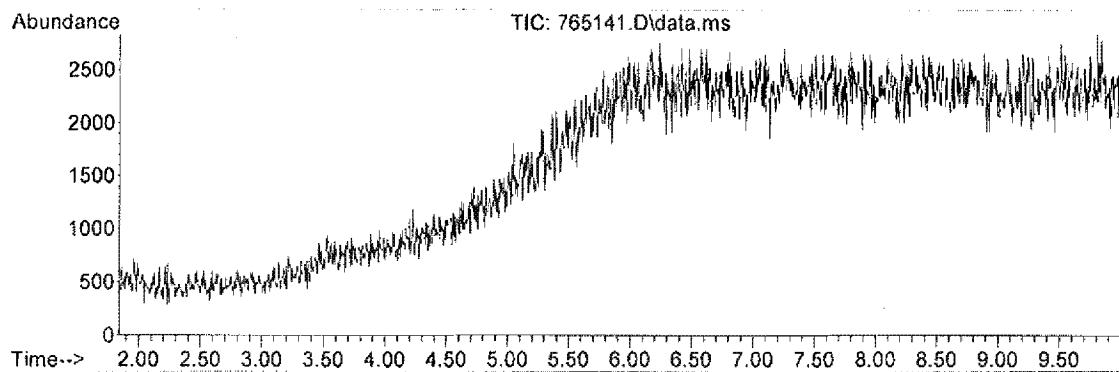
PK#	RT	Library/ID	CAS#	Qual
4	4.71	C:\Database\SLI.L COCAINE	000050-36-2	99



Area Percent / Library Search Report

Information from Data File:

File Name : J:\01_11_11\765141.D
Operator : KAC
Date Acquired : 11 Jan 2011 17:56
Sample Name : BLANK
Submitted by : ASD
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE



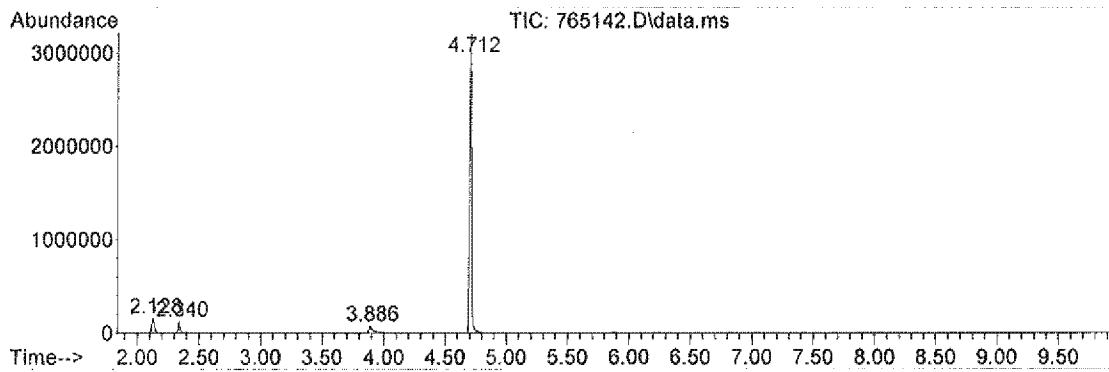
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : J:\01_11_11\765142.D
Operator : KAC
Date Acquired : 11 Jan 2011 18:09
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 42
AcquisitionMeth: DRUGS.M
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
2.128	228389	5.11	5.90
2.340	126307	2.83	3.26
3.886	242329	5.43	6.26
4.712	3868988	86.63	100.00

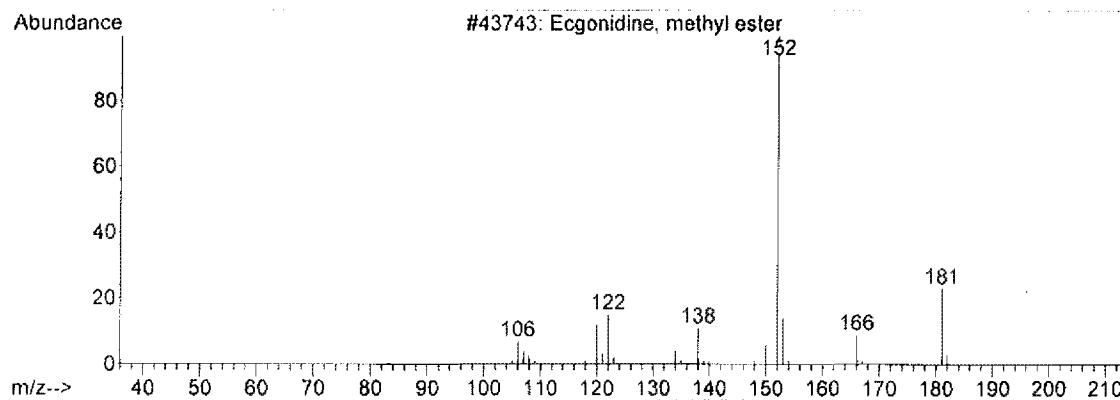
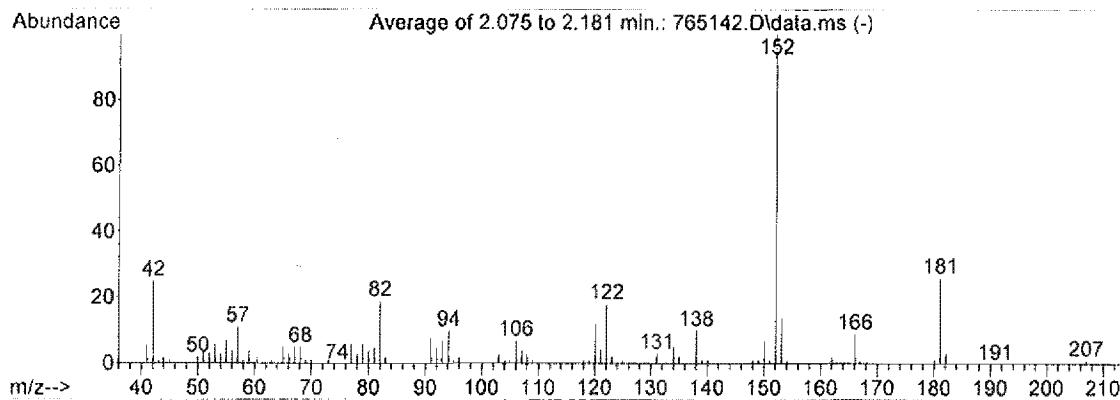
Area Percent / Library Search Report

Information from Data File:

File Name : J:\01_11_11\765142.D
 Operator : KAC
 Date Acquired : 11 Jan 2011 18:09
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 42
 AcquisitionMeth: DRUGS.M
 Integrator : RTE

Search Libraries:	C:\Database\SLI.L	Minimum Quality: 80
	C:\Database\NIST05a.L	Minimum Quality: 80
	C:\Database\PMW_TOX2.L	

PK#	RT	Library/ID	CAS#	Qual
1	2.13	C:\Database\NIST05a.L		
		Ecgonidine, methyl ester	127379-24-2	98
		2-Carbomethoxy-8-methyl-8-azabicycl	043021-26-7	96
		3,5-Dimethoxyphenethylamine	003213-28-3	43



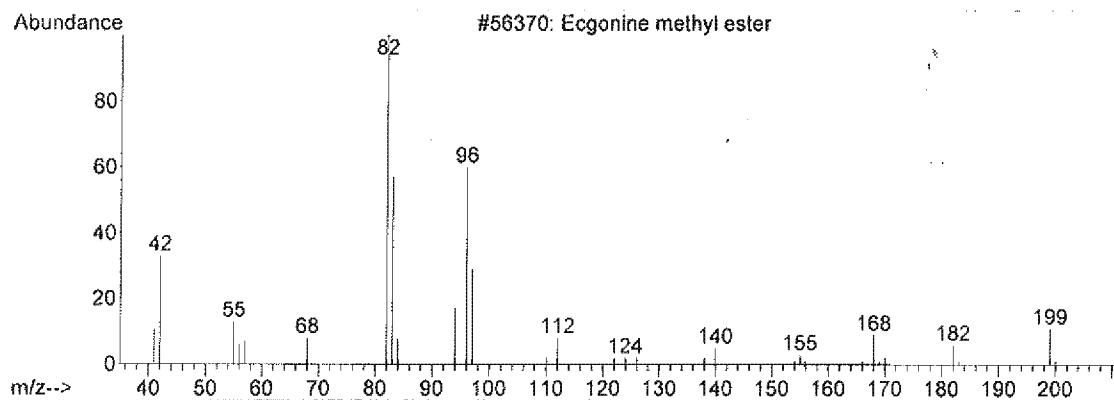
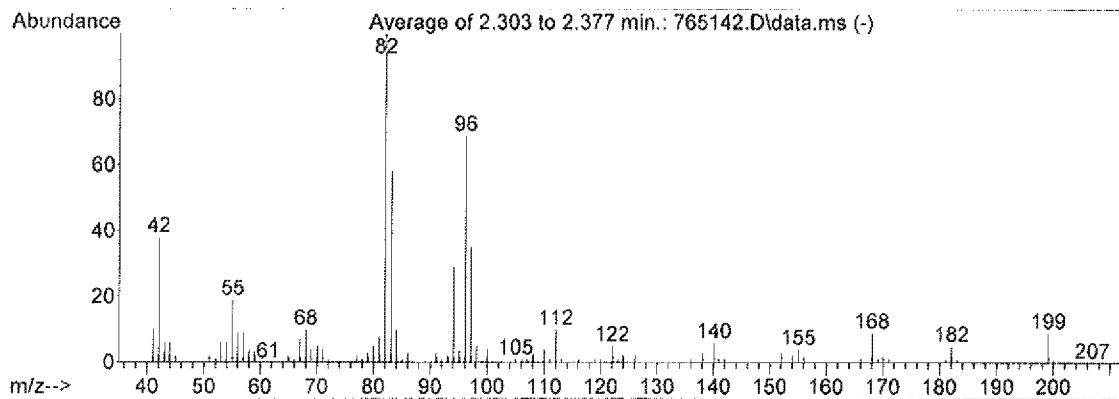
Area Percent / Library Search Report

Information from Data File:

File Name : J:\01_11_11\765142.D
Operator : KAC
Date Acquired : 11 Jan 2011 18:09
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 42
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	2.34	C:\Database\NIST05a.L		
		Eggonine methyl ester	106293-60-1	98
		Eggonine methyl ester	106293-60-1	97
		Eggonine methyl ester	106293-60-1	97



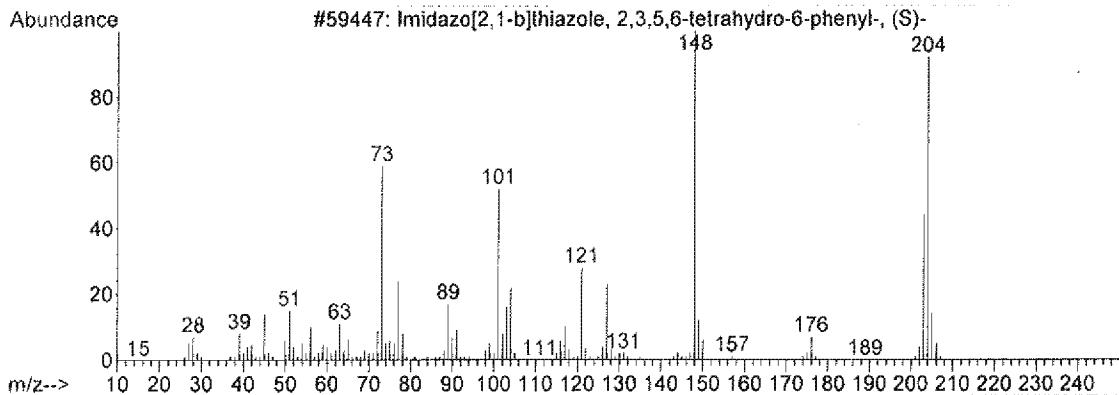
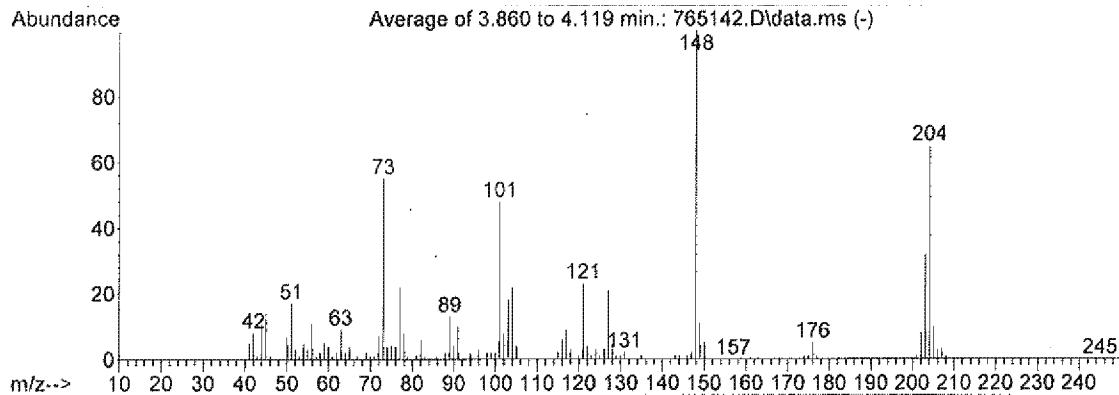
Area Percent / Library Search Report

Information from Data File:

File Name : J:\01_11_11\765142.D
Operator : KAC
Date Acquired : 11 Jan 2011 18:09
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 42
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
3	3.89	C:\Database\NIST05a.L		
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	014769-73-4	98
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	98
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	98



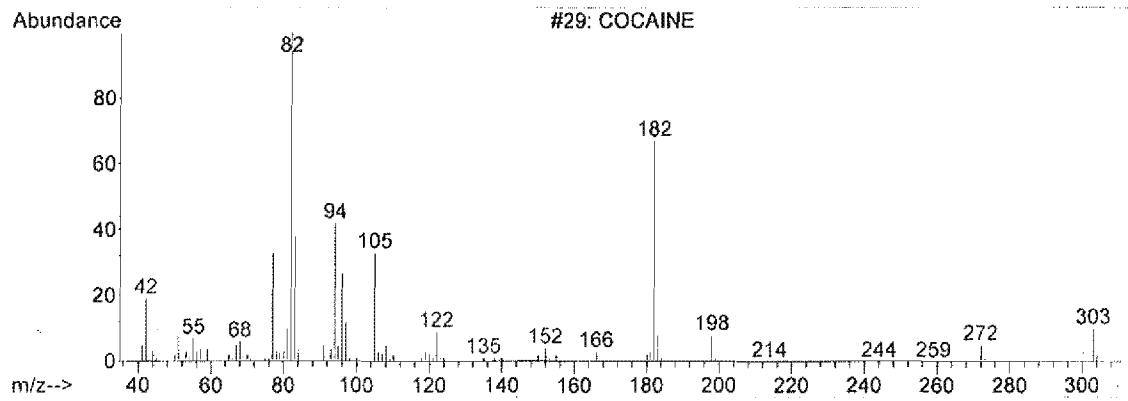
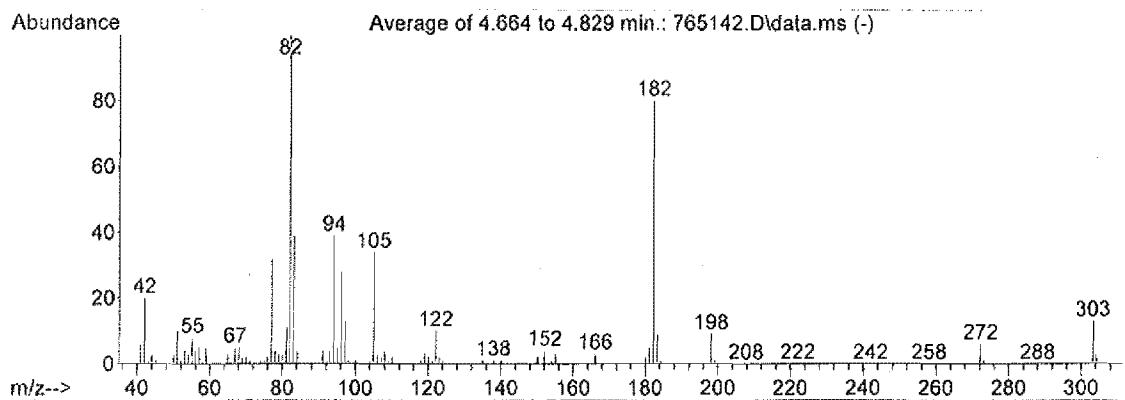
Area Percent / Library Search Report

Information from Data File:

File Name : J:\01_11_11\765142.D
Operator : KAC
Date Acquired : 11 Jan 2011 18:09
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 42
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

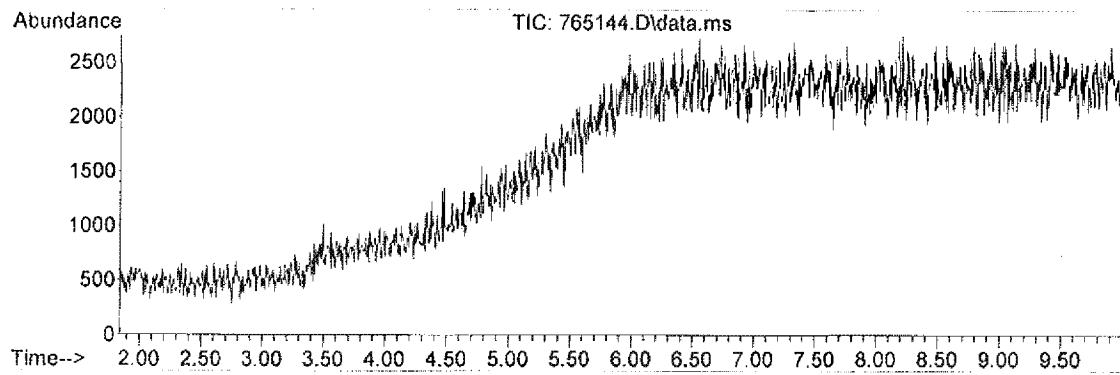
PK#	RT	Library/ID	CAS#	Qual
4	4.71	C:\Database\SLI.L COCAINE	000050-36-2	99



Area Percent / Library Search Report

Information from Data File:

File Name : J:\01_11_11\765144.D
Operator : KAC
Date Acquired : 11 Jan 2011 18:34
Sample Name : BLANK
Submitted by :
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE



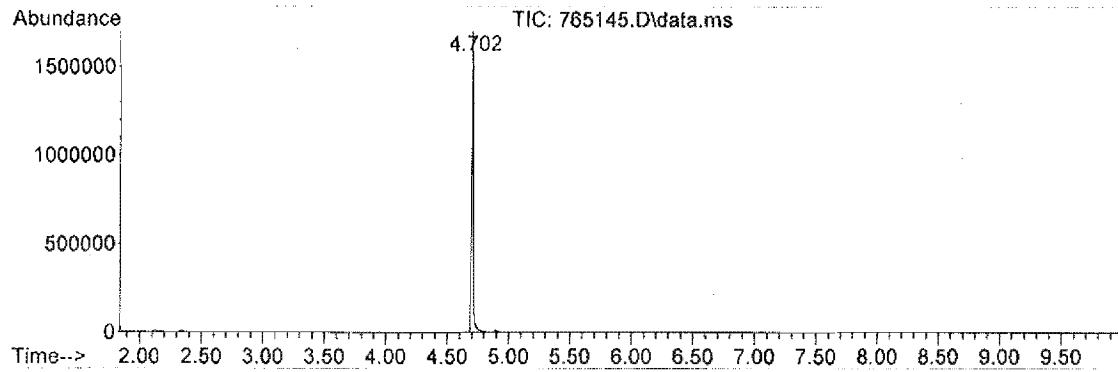
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : J:\01_11_11\765145.D
Operator : KAC
Date Acquired : 11 Jan 2011 18:46
Sample Name : COCAINE STD
Submitted by :
Vial Number : 45
AcquisitionMeth: DRUGS.M
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.702	1770627	100.00	100.00

Area Percent / Library Search Report

Information from Data File:

File Name : J:\01_11_11\765145.D
 Operator : KAC
 Date Acquired : 11 Jan 2011 18:46
 Sample Name : COCAINE STD
 Submitted by :
 Vial Number : 45
 AcquisitionMeth: DRUGS.M
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
 C:\Database\NIST05a.L Minimum Quality: 80
 C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	4.70	C:\Database\SLI.L COCAINE	000050-36-2	99

